Website:http://biz.LGservice.com

COLOR MONITOR
SERVICE MANUAL

CHASSIS NO. : LM62B

MODEL: FLATRON L226WTG(L226WTG-WFQ.AMAF)**

( ) **Same model for Service

CAUTION

BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.

CONTENTS

SPECIFICATIONS 2
PRECAUTIONS 4
TIMING CHART 8
DISASSEMBLY 9
BLOCK DIAGRAM 10
DESCRIPTION OF BLOCK DIAGRAM.....11
ADJUSTMENT 13
TROUBLESHOOTING GUIDE 15
WIRING DIAGRAM 19
EXPLODED VIEW.....20
REPLACEMENT PARTS LIST 22
SCHEMATIC DIAGRAM..... 25

SPECIFICATIONS

1. LCD CHARACTERISTICS

Type	: TFT Color LCD Module
Active Display Area	: 22 inch diagonal
Pixel Pitch	: 0.282 (H) x 0.282 (V)
Size	: 493.7(H) x 320.1(V) x 16.5(D)
Color Depth	: 16.7M (8bit) colors
Electrical Interface	: LVDS
Surface Treatment	: AG(Haze 25%), Hard Coating(3H)
Operating Mode	: Normally White
Backlight Unit	: 4 CCFL

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10

Left : +75° min., +85°(Typ) Right : -75° min., -85°(Typ)
Top :+70° min., +80°(Typ) Bottom : -70° min., -80°(Typ)

2-2. Luminance : 180(Typ) (Typ. ±30)**-sRGB**
: 220(min), 300(Typ)-**6500K**
: 150(min)-**9300K**

2-3. Contrast Ratio : 450(min), 700(Typ)
DFC -> 3000 : 1 (Typ)
2500 : 1 (Min)

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal
• Type : Separate Sync, SOG, Digital

3-2. Video Input Signal

1) Type	: R, G, B Analog
2) Voltage Level	: 0~0.7 V
3) Input Impedance	: 75 Ω

3-3. Operating Frequency

Horizontal	: 30 ~ 83kHz
Vertical	: 56 ~ 75Hz

4. MAX. RESOLUTION

Analog	: 1680 x 1050@60Hz
Digital	: 1680 x 1050@60Hz

5. POWER SUPPLY

5-1. Power Adaptor(Built-in Power)
Input : AC 100-240V~, 50/60Hz, 1.2A

5-2. Power Consumption

MODE	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR
POWER ON (NORMAL)	ON/ON	ACTIVE	less than 50 W(max)	BLUE
			less than 45 W(typ)	
STAND BY	OFF/ON	OFF	less than 1 W	AMBER
SUSPEND	ON/OFF	OFF	less than 1 W	AMBER
DPMS OFF	OFF/OFF	OFF	less than 1 W	AMBER
POWER S/W OFF	-	-	less than 1 W	OFF

6. ENVIRONMENT

6-1. Operating Temperature	: 10°C~35°C (50°F~95°F)
6-2. Relative Humidity	: 10%~80% (Non-condensing)
6-3. MTBF	: 50,000 HRS with 90% Confidence level
Lamp Life	: 40,000 Hours (Min)

7. DIMENSIONS (with TILT/SWIVEL)

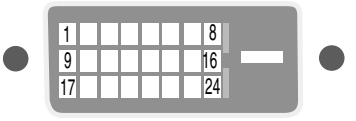
Width	: 466.2 mm (18.35")
Depth	: 226 mm (8.90")
Height	: 384 mm (15.12")

8. WEIGHT (with TILT/SWIVEL)

Net. Weight	: 5.65 kg (12.46 lbs)
Gross Weight	: 7.95 kg (17.53 lbs)

Signal Connector Pin Assignment

• **DVI-D Connector (Digital)**



Pin	Signal (DVI-D)
1	T. M. D. S. Data2-
2	T. M. D. S. Data2+
3	T. M. D. S. Data2/4 Shield
4	T. M. D. S. Data4-
5	T. M. D. S. Data4+
6	DDC Clock
7	DDC Data
8	Analog Vertical Sync.
9	T. M. D. S. Data1-
10	T. M. D. S. Data1+
11	T. M. D. S. Data1/3 Shield
12	T. M. D. S. Data3-
13	T. M. D. S. Data3+
14	+5V Power
15	Ground (return for +5V, H. Sync. and V. Sync.)

Pin	Signal (DVI-D)
16	Hot Plug Detect
17	T. M. D. S. Data0-
18	T. M. D. S. Data0+
19	T. M. D. S. Data0/5 Shield
20	T. M. D. S. Data5-
21	T. M. D. S. Data5+
22	T. M. D. S. Clock Shield
23	T. M. D. S. Clock+
24	T. M. D. S. Clock-

T. M. D. S. (Transition Minimized Differential Signaling)

PRECAUTION

WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. ***These parts are marked ⚠on the schematic diagram and the replacement parts list.*** It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- The module not be exposed to the direct sunlight.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a softmaterial. (Cleaning with a dirty or rough cloth may damage the panel.)

⚠ CAUTION

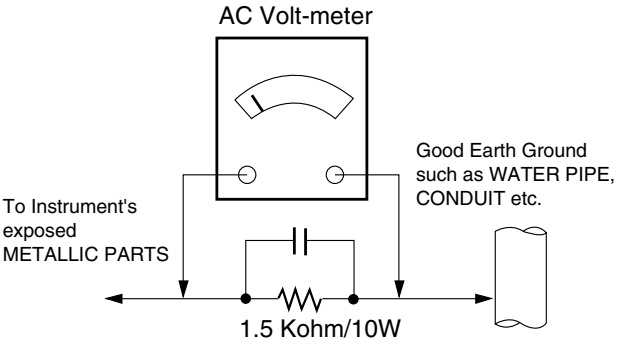
Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

⚠ WARNING

BE CAREFUL ELECTRIC SHOCK !

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.

Leakage Current Hot Check Circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the ***SAFETY PRECAUTIONS*** on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
9. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature.
      (500°F to 600°F)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500°F to 600°F)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
      CAUTION: Work quickly to avoid overheating the circuit board printed foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

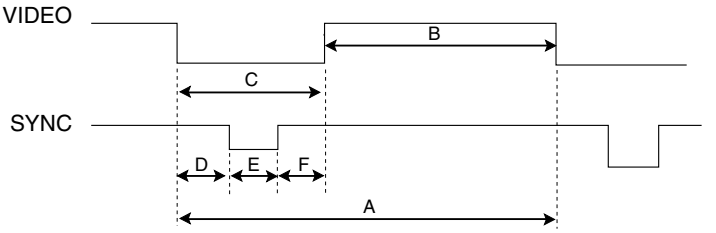
1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.
   Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
   Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

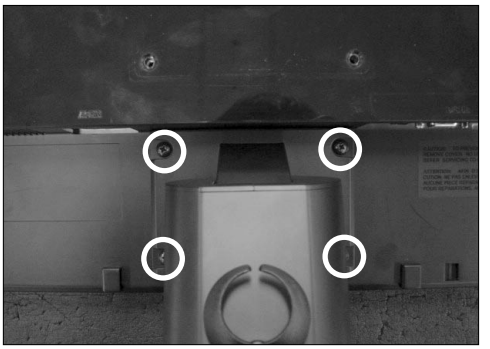
TIMING CHART



MODE	H / V	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Sync Duration (D)	Front Porch (C)	Blanking Time (B)	Resolution
1	H(Pixels)	-	28.321	31.468	900	720	18	108	54	720 X 400
	V(Lines)	+		70.08	449	400	12	2	35	
2	H(Pixels)	-	25.175	31.469	800	640	16	96	48	640 x 480
	V(Lines)	-		59.94	525	480	10	2	33	
3	H(Pixels)	-	31.5	37.5	840	640	16	64	120	640 x 480
	V(Lines)	-		75	500	480	1	3	16	
4	H(Pixels)	+	40.0	37.879	1056	800	40	128	88	800 x 600
	V(Lines)	+		60.317	628	600	1	4	23	
5	H(Pixels)	+	49.5	46.875	1056	800	16	80	160	800 x 600
	V(Lines)	+		75.0	625	600	1	3	21	
6	H(Pixels)	-	65.0	48.363	1344	1024	24	136	160	1024 x 768
	V(Lines)	-		60.0	806	768	3	6	29	
7	H(Pixels)	-	78.75	60.123	1312	1024	16	96	176	1024 x 768
	V(Lines)	-		75.029	800	768	1	3	28	
8	H(Pixels)	+/-	108.0	67.500	1600	1152	64	128	256	1152 x 864
	V(Lines)	+/-		75.000	900	864	1	3	32	
9	H(Pixels)	+	108.0	63.981	1688	1280	48	112	248	1280 x 1024
	V(Lines)	+		60.02	1066	1024	1	3	38	
10	H(Pixels)	+	135.0	79.976	1688	1280	16	144	248	1280 x 1024
	V(Lines)	+		75.035	1066	1024	1	3	38	
11	H(Pixels)	+	119	64.674	1840	1680	48	32	80	1680 x 1050
	V(Lines)	-		59.883	1080	1050	3	6	21	
12	H(Pixels)	-	146.25	65.290	2240	1680	104	176	280	1680 x 1050
	V(Lines)	+		59.954	1089	1050	3	6	30	

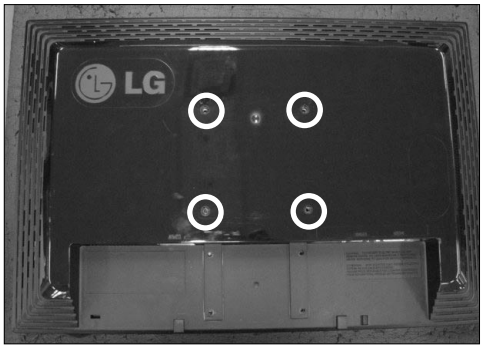
DISASSEMBLY

 # 1



Remove the screws.

 # 2



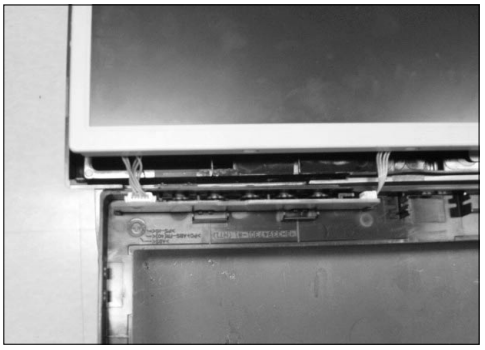
Remove the screws.

 # 3

1. Pull the front cover upward.
2. Then, let the all latches are separated with jig. (#3~4)

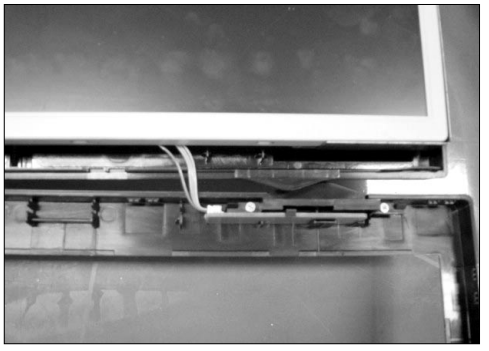
 # 4

 # 5



Disassemble PCB.

 # 6



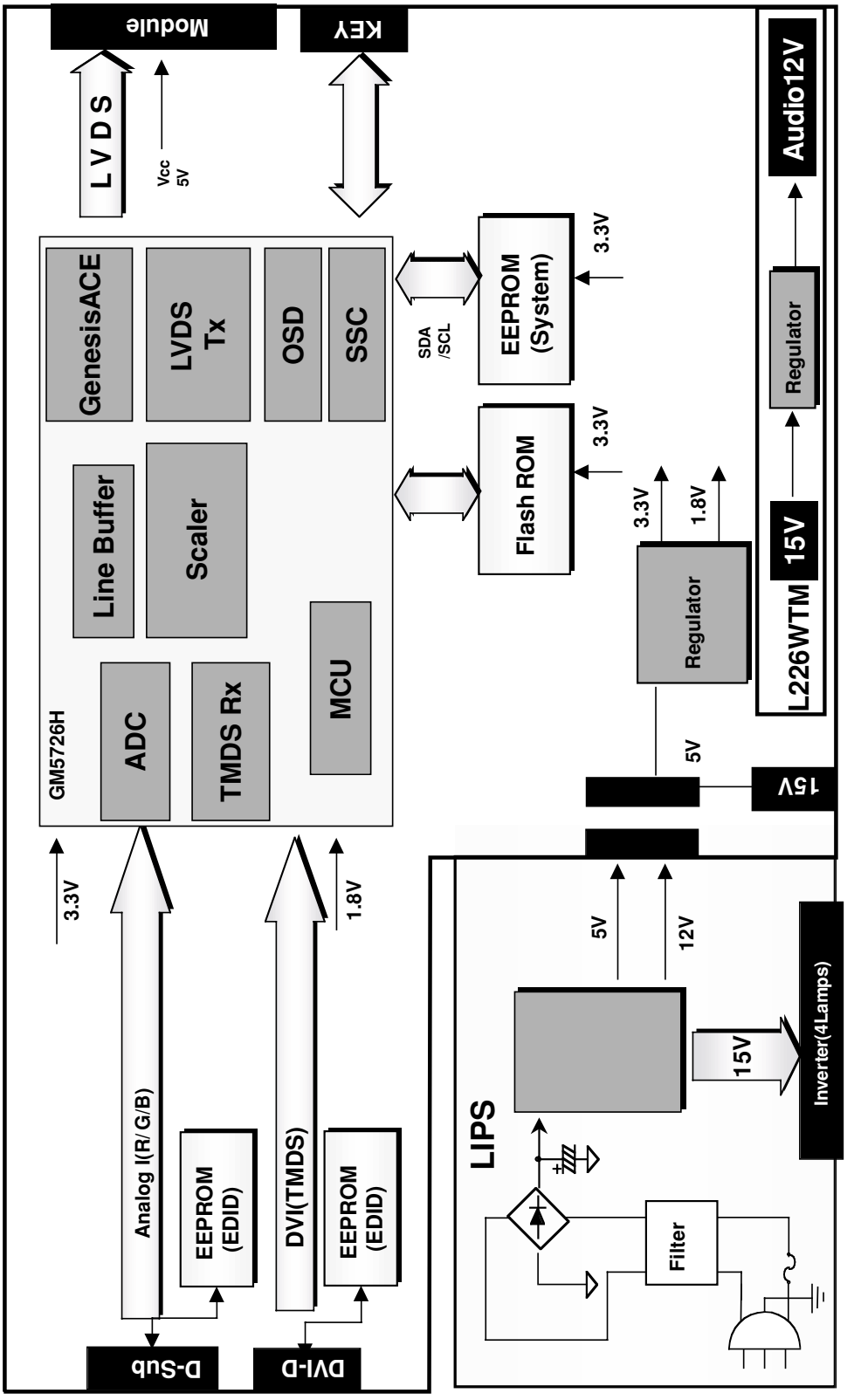
1.Disassemble PCB.

2. Put the front face down.

 # 7

Disassemble back cover

BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. Video Controller Part.

This part amplifies the level of video signal for the digital conversion and converts from the analog video signal to the digital video signal using a pixel clock.

The pixel clock for each mode is generated by the PLL.

The range of the pixel clock is 146MHz In L226WT/WTM.

This part consists of the Scaler, ADC convertor, TMDS receiver and LVDS transmitter.

The Scaler gets the video signal converted analog to digital, interpolates input to 1680X1050(L226WT/WTM) resolution signal and outputs 8-bit R, G, B signal to transmitter.

2. Power Part.

This part consists of the one 3.3V, and one 1.8V regulators to convert power which is provided 5V in Power board.

15V is provided for inverter in L226WT/WTM.

Also, 5V is converted 3.3V and 1.8V by regulator. Converted power is provided for IC in the main board.

The inverter converts from DC 15V to AC 820Vrms and operates back-light lamps of module in L226WT/WTM.

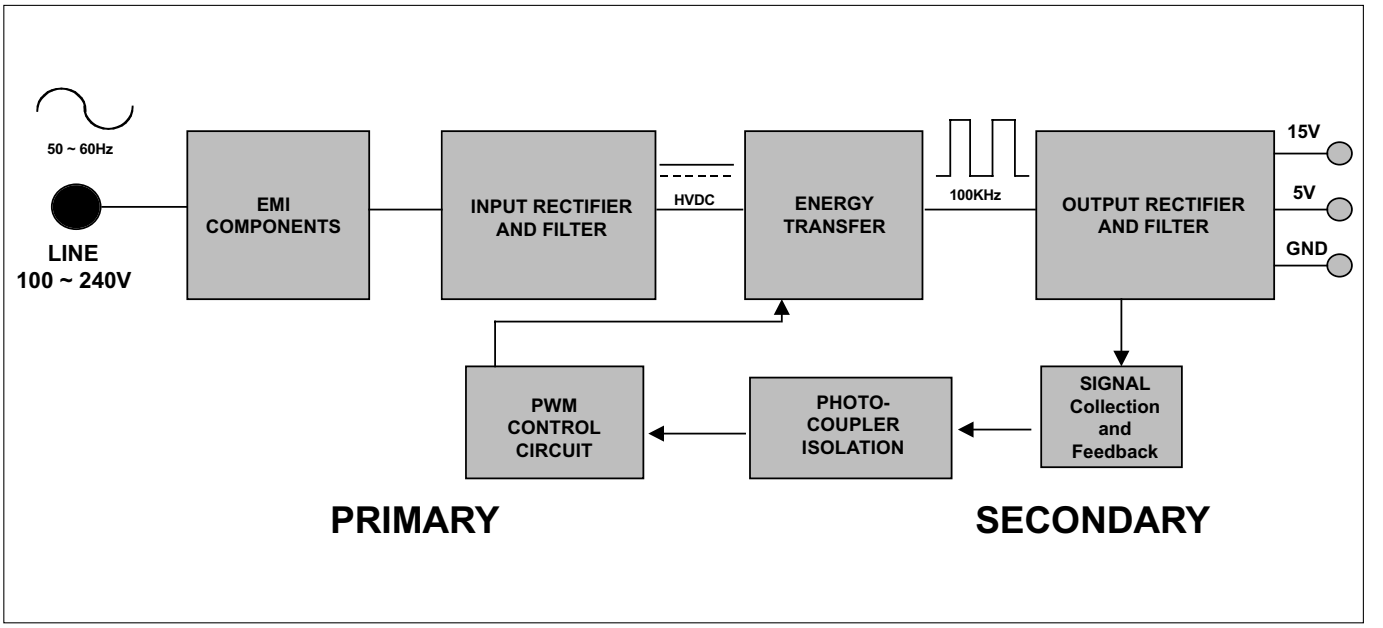
3. MICOM Part.

This part is include video controller part. And this part consists of EEPROM IC which stores control data, Reset IC and the Micom.

The Micom distinguishes polarity and frequency of the H/V sync are supplied from signal cable.

The controlled data of each modes is stored in EEPROM.

LIPS Board Block Diagram



Operation description_Power

1. EMI components.

This part contains of EMI components to comply with global marketing EMI standards like FCC,VCCI CISPR, the circuit included a line-filter, across line capacitor and of course the primary protection fuse.

2. Input rectifier and filter.

This part function is for transfer the input AC voltage to a DC voltage through a bridge rectifier and a bulk capacitor.

3. Energy Transfer.

This part function is for transfer the primary energy to secondary through a power transformer.

4. Output rectifier and filter.

This part function is to make a pulse width modulation control and to provide the driver signal to power switch, to adjust the duty cycle during different AC input and output loading condition to achieve the dc output stabilized, and also the over power protection is also monitor by this part.

5. Photo-Coupler isolation.

This part function is to feed back the DC output changing status through a photo transistor to primary controller to achieve the stabilized DC output voltage.

6. Signal collection.

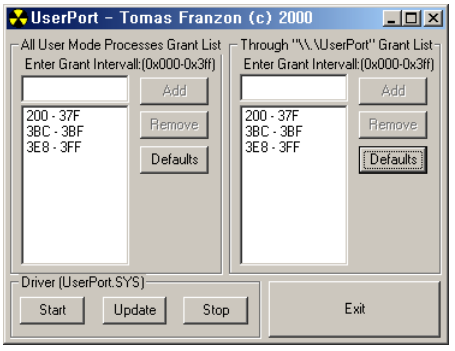
This part function is to collect the any change from the DC output and feed back to the primary through photo transistor.

ADJUSTMENT

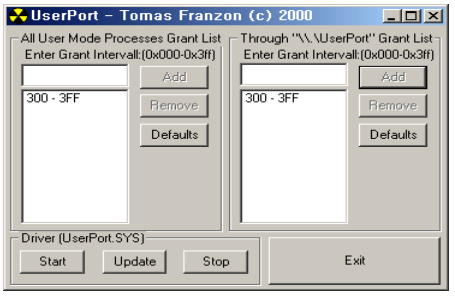
Windows EDID V1.0 User Manual

Operating System: MS Windows 98, 2000, XP
Port Setup: Windows 98 => Doesn't need setup
Windows 2000, XP => Need to Port Setup.
This program is available for LCD Monitor only.

1. Port Setup
   a) Copy "UserPort.sys" file to
   "c:\WINNT\system32\drivers" folder
   b) Run Userport.exe

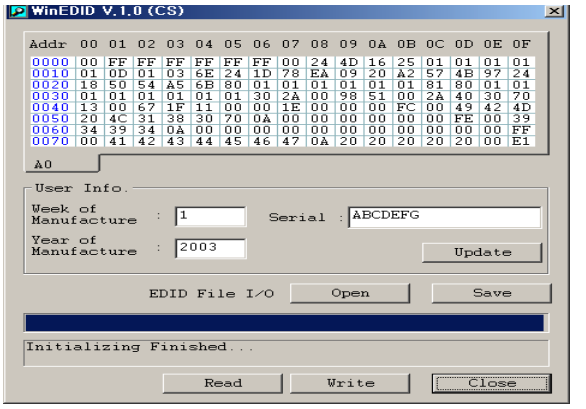


   c) Remove all default number
   d) Add 300-3FF

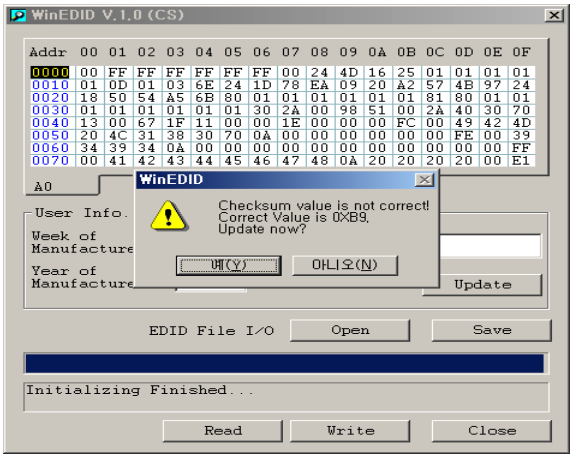


   e) Click Start button.
   f) Click Exit button.

2. EDID Read & Write
   1) Run WinEDID.exe



   2) Edit Week of Manufacture, Year of Manufacture, Serial Number
      a) Input User Info Data
      b) Click "Update" button
      c) Click " Write" button



SERVICE OSD

1) Turn off the power switch at the right side of the display.

2) Wait for about 5 seconds and press MENU, POWER switch for 1 second interval.

3) The SVC OSD menu contains additional menus that the User OSD menu as described below.

a) CLEAR ETI : To initialize using time.
c) Auto Color : W/B balance and Automatically sets the gain and offset value.
(press key for over 3 sec)
d) AGING : Select Aging mode(on/off).
b) Module : To select applied module.
d) NVRAM INIT : EEPROM initialize.(24C16, press key for over 3 sec)
e) R/G/B-9300K : Allows you to set the R/G/B-9300K value manually.
f) R/G/B-6500K : Allows you to set the R/G/B-6500K value manually.
g) R/G/B-Offset : Allows you to set the R/G/B-Offset value manually.(Analog Only)
h) R/G/B-Gain : Allows you to set the R/G/B-Gain value manually.(Analog Only)

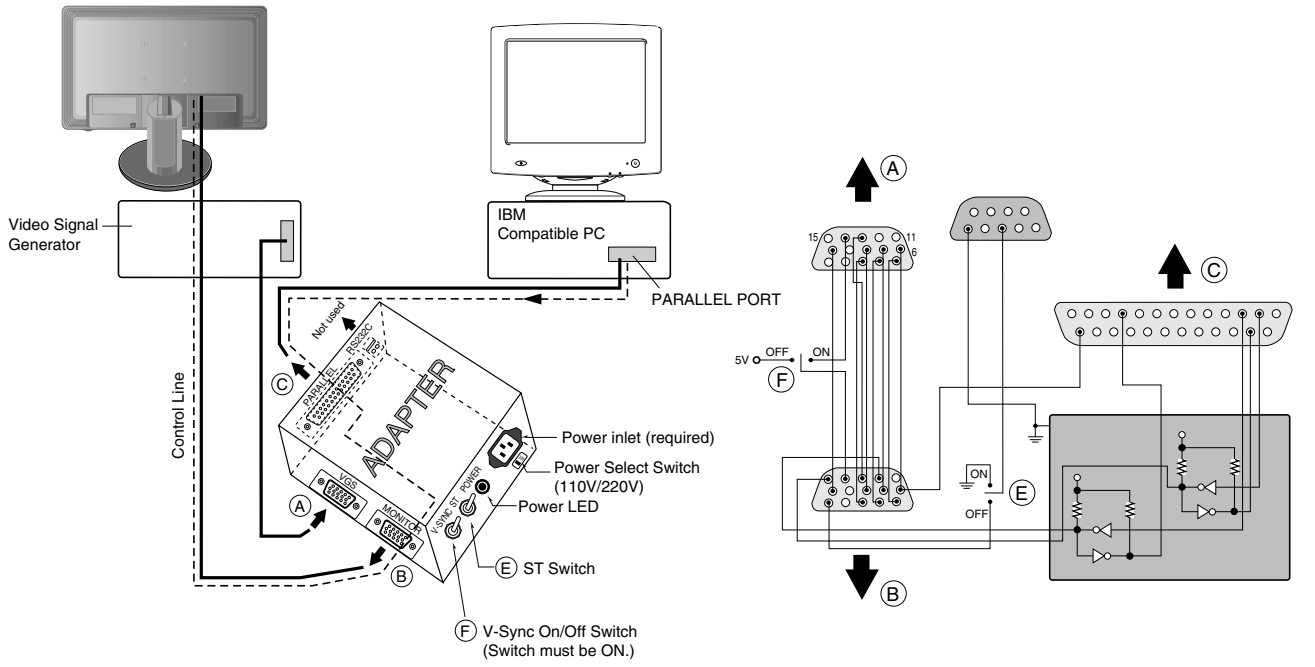
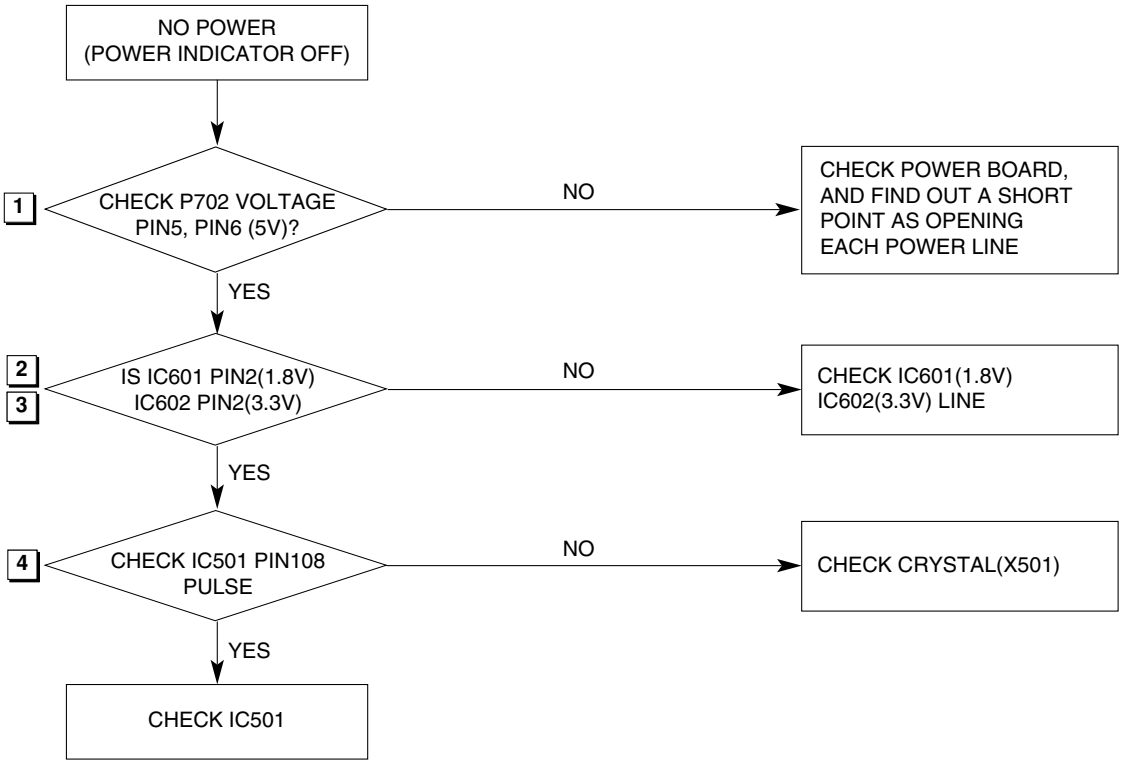


Figure 1. Cable Connection

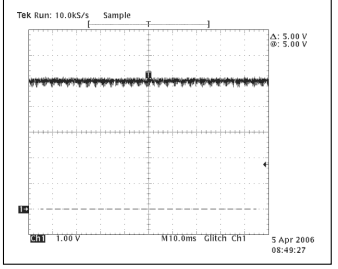
TROUBLESHOOTING GUIDE

1. NO POWER

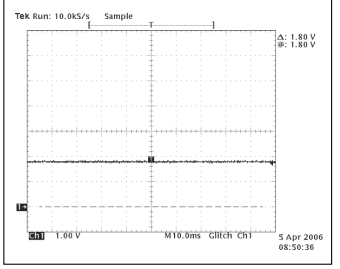


Waveforms

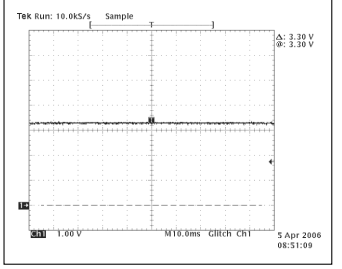
1 P702-#5,6



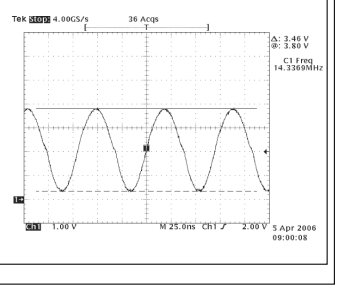
2 IC601-#2



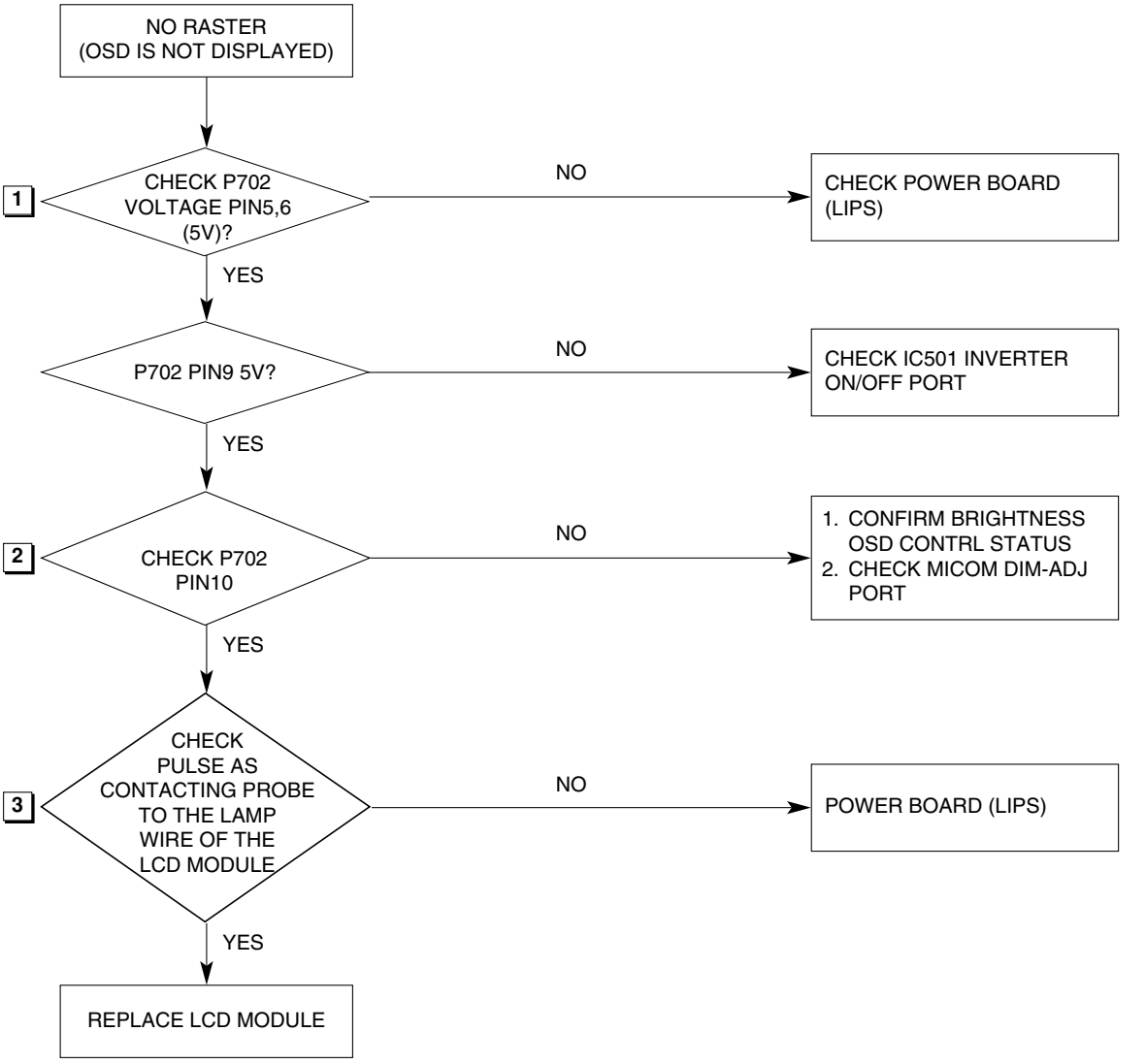
3 IC602-#2



4 IC501-#108

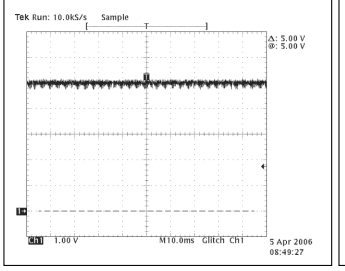


2. NO RASTER (OSD IS NOT DISPLAYED) – LIPS

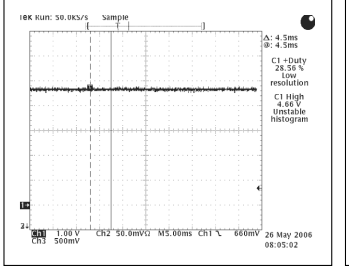


Waveforms

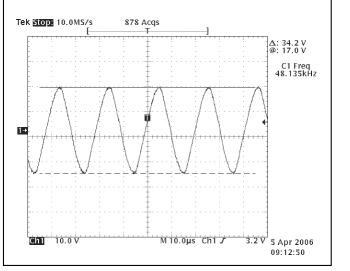
1 P702-#5,6



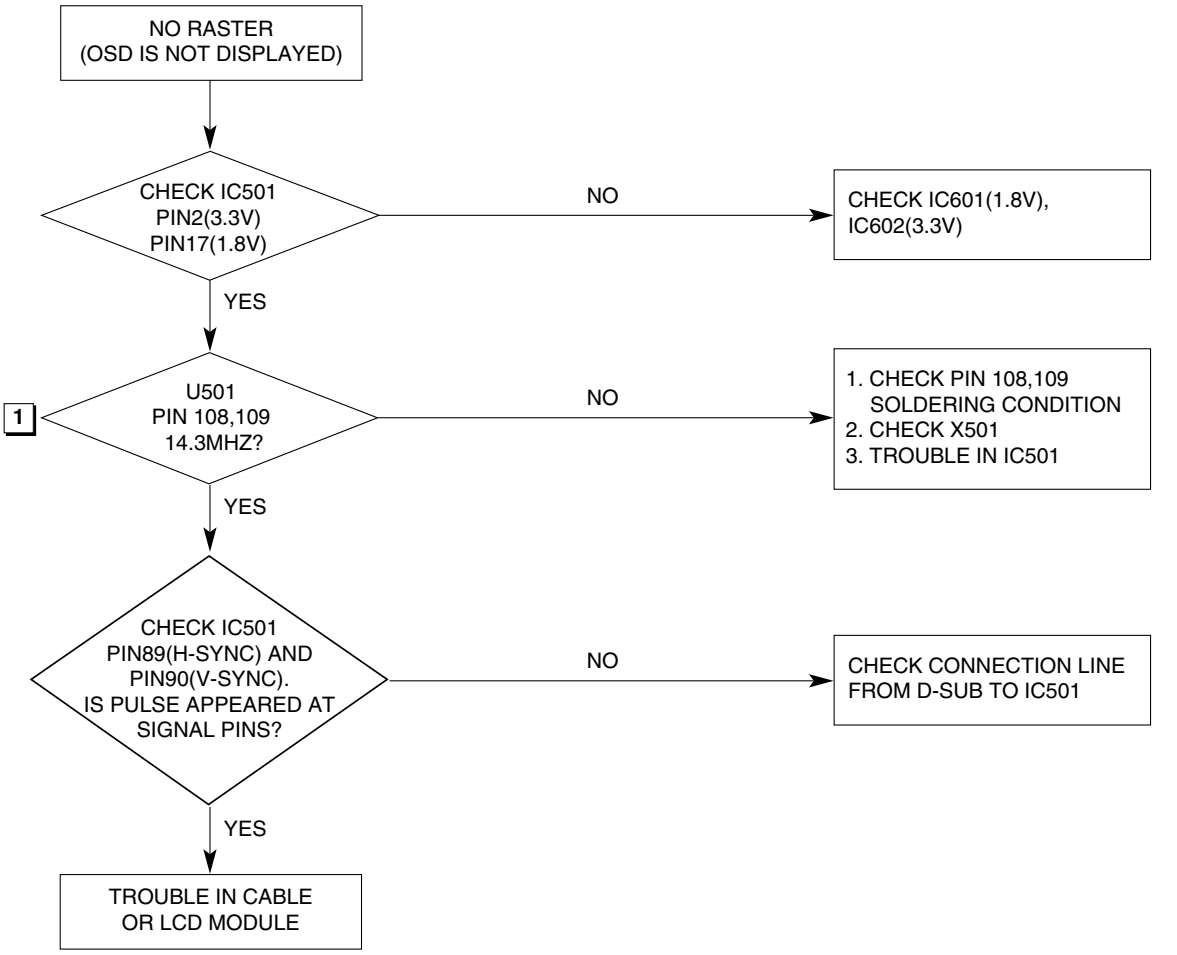
2 P702-#10



3 LAMP CURRENT

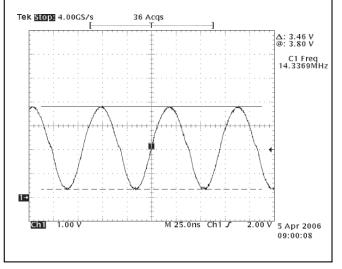


3. NO RASTER (OSD IS NOT DISPLAYED) - MAIN

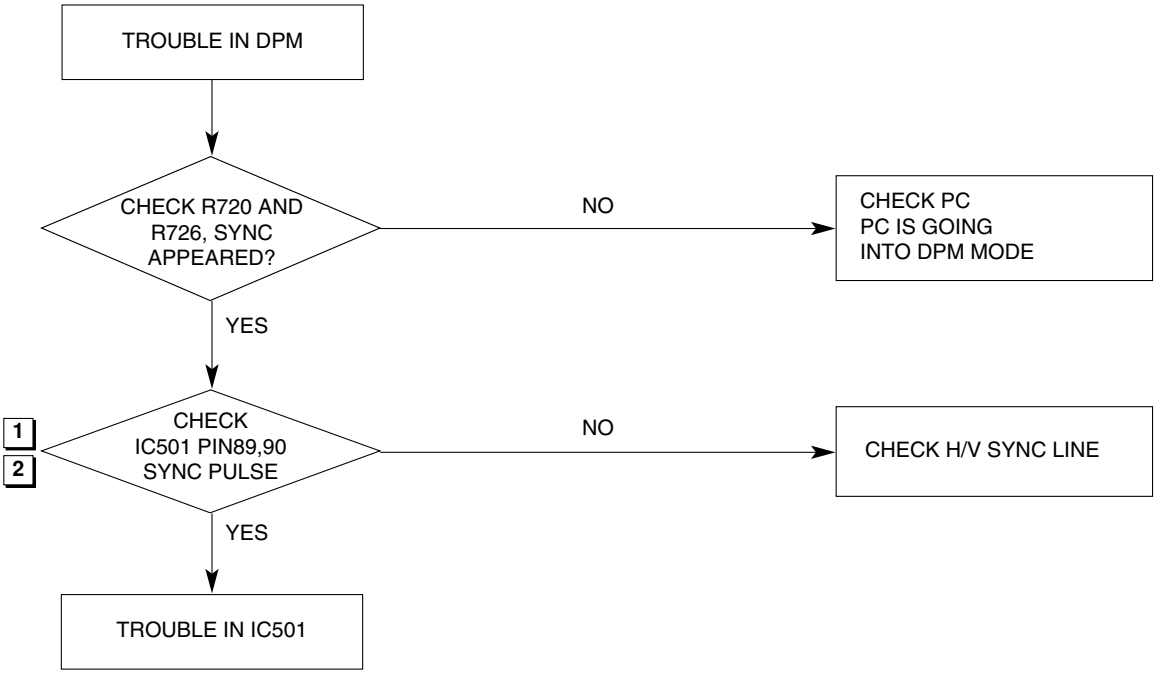


Waveforms

4 IC501-#108

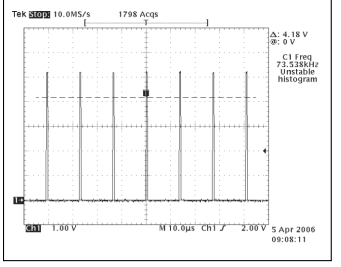


4. TROUBLE IN DPM

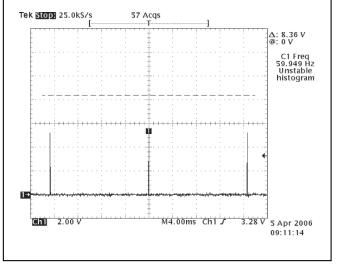


Waveforms

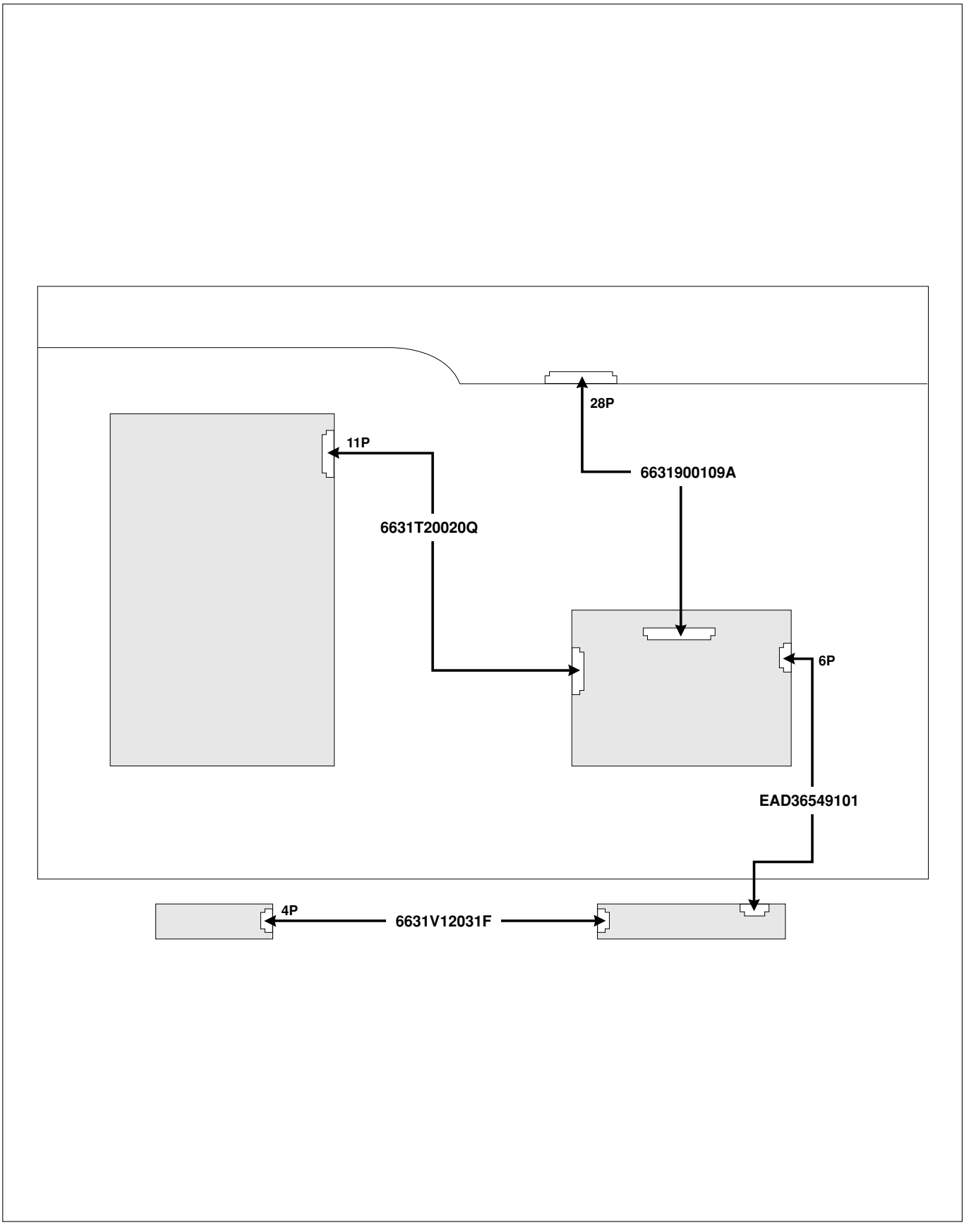
1 H-SYNC



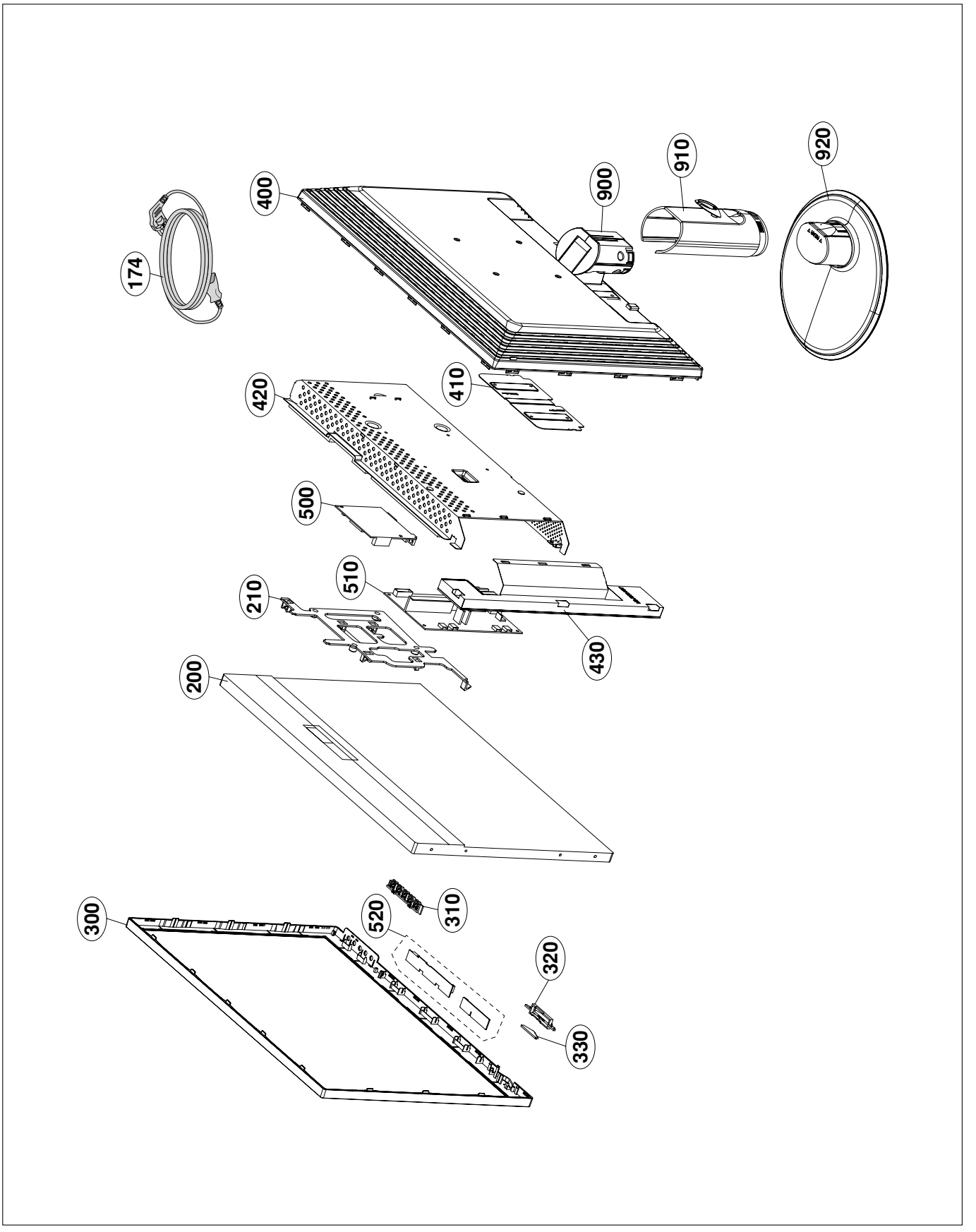
2 V-SYNC



WIRING DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

*** Note:** Safety mark ⚠

No.		Part No.	Description
	174	6410TEW010A	Power Cord, CEE,LP-34A&H05VV-FX3C,LS-60_1.87M_BLK LP-34A LS-60 1.87M NONE 250V 16A H05VV-F 3X0.75MM2 BLACK VDE SEMKO N LONGWELL COMPANY
⚠	200	EAJ36500301	LCD,Module-TFT, LM220WE1-TLB1 DRIVER 22.0INCH 1680X1050 300CD COLOR 72% 16/10 800:1 Glare, P6, 5ms, 160/160, TLI T-con IC, OKI/Novatek(Source D-IC/Gate D-IC), Heesung
⚠	300	ABJ32761403	Cabinet Assembly, L226W LM62A 23" Glare cabient NT Assy
	310	MEY33947503	Knob, MOLD ABS MAIN 5 L225W Control Knob(5Key) Black
	320	MEY33947602	Knob, MOLD ABS MAIN2 1 L225W Power(On/Off)
	330	MFB35967702	Lens, MOLD ABS 380 BENQ LENS L226W LED Lens, EAGLE EYE, PMMA NT-CKD
⚠	400	ACQ31701733	Cover Assembly,Rear, L225W LM62A 23" Backcover LPL DVI,D-SUB,White,EU
	410	MGJ33948901	Plate,Metal, PRESS SECC 0.8 SUPPORTER SECC L225W Stand Bracket Metal
	420	ADV31702015	Frame Assembly, L226W LM62A 23" Rear Shield Assy(DVI-D,D-SUB) for LPL
	430	ADV32121501	Frame Assembly, L226W LM62A 23" Lamp shield assy
	500	EBU36485604	Main Total Assembly, L226WTQ BRAND LM62C
⚠	510	6871TPT318E	PCB Assembly,Power, PLLM-M602A POWER T.T CMO L225W 22"Wide Scaler Dimming LG INNOTEK CO., LTD
	520	EBR33771801	PCB Assembly,Sub, CONTROL NT CKD T.T LM62B L225WT KRDGQFN L226WT NT CKD CONTROL
⚠	900	AAN31689305	Base Assembly, STAND L226WT LM62A STAND HINGE BODY ASSY,white
⚠	910	AAN31689205	Base Assembly, STAND L225WT LM62A STAND BODY ASSY,white
⚠	920	AAN31688005	Base Assembly, ASSY L225WT LM62A STAND BASE ASSY,white

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.
* NOTE : **S** SAFETY Mark ⚠
AL ALTERNATIVE PARTS

DATE: 2007. 05. 22.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		MAIN BOARD		
		CAPACITORs		
		C501	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C502	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C503	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C504	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C505	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C506	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C508	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C509	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C510	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C511	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C512	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C513	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C514	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C515	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C516	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C517	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C518	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C519	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C520	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C521	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C522	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C523	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C524	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C525	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C526	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C527	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C528	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C529	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C530	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C531	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C532	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C533	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C534	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C535	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C536	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C537	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C538	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C539	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C540	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C541	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C542	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C543	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C544	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C545	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C546	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C547	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C548	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C549	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50V C0G
		C550	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C551	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V C0G -
		C552	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V C0G -
		C554	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R

DATE: 2007. 05. 22.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C555	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C556	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C557	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C558	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C559	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C560	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C562	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C563	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -
		C564	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G
		C601	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C602	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C603	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C604	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C605	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G
		C606	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C607	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C608	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G
		C609	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C610	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C611	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C612	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V C0G -
		C613	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C614	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V C0G -
		C615	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C616	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C617	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V C0G -
		C618	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V C0G -
		C619	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C620	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C622	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C623	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5P -
		C625	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5P -
		C627	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C701	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -
		C702	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5
		C703	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5P -
		C704	0CE227EF638	KMG5.0TP16VB220M 220uF 20% 16V 21
		C706	0CE107EF610	KMG16VB100M 100uF 20% 16V 125MA -
		C708	0CE107EF610	KMG16VB100M 100uF 20% 16V 125MA -
		C709	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C710	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C711	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C712	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
		C713	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5P -
		C714	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5P -
		C715	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5P -
		C716	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5P -
		DIODEs		
		D601	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D602	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D603	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D604	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15

DATE: 2007. 05. 22.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D605	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D606	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D607	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D608	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D609	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D610	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D611	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 15
		D612	0DSON00138A	MMBD301LT1G 600MV 30V - - 1.5pF 2
		D613	0DSON00138A	MMBD301LT1G 600MV 30V - - 1.5pF 2
		D614	0DD184009AA	KDS184 KDS184 TP KEC - 85V - - -
		D615	0DD184009AA	KDS184 KDS184 TP KEC - 85V - - -
		ZD601	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
		ZD603	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
		ZD605	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
		ZD606	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
		ZD607	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
		ZD608	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
		ZD610	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
	ICs			
		IC501	EAN36489804	L226WTQ GUMI FRESH MEMORY
		IC502	EAN31470701	GM5822H-LF-AA 1.8VTO3.3V 14.3MHZ
		IC503	EAN31557001	HY57V161610FTP-6 16MBIT 1MX16BIT
		IC504	EAN31557001	HY57V161610FTP-6 16MBIT 1MX16BIT
		IC505	0IMMRSG036B	M24C16-WMN6TP 16KBIT 2KX8BIT 2.5V
		IC601	0IMMR00014A	M24C02-RMN6TP 2KBIT 256X8BIT 1.8V
		IC602	0IMMR00014A	M24C02-RMN6TP 2KBIT 256X8BIT 1.8V
		IC702	0IPMGSG016A	LD1086D2T18TR 3.4TO30V 1.8V 0W D2
		IC703	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V 0W SOT
	FILTERs			
		L501	6210TCE0013	HB-1M1608-121JT 120OHM 1.6X0.8X0.
		L502	6210TCE0013	HB-1M1608-121JT 120OHM 1.6X0.8X0.
	TRANSISTORs			
		Q502	0TRDI80002A	MMBT3904-(F) NPN 6V 60V 40V 200MA
		Q601	0TR390609FA	KST3906-MTF PNP -5V -40V -40V -0.
		Q602	0TR390609FA	KST3906-MTF PNP -5V -40V -40V -0.
	RESISTORs			
		R503	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
		R511	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R514	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R519	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R524	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R525	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R526	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R527	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R528	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R529	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R530	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R538	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/10W 160
		R540	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R541	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R542	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R544	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W 1608
		R545	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R546	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W 1608

DATE: 2007. 05. 22.

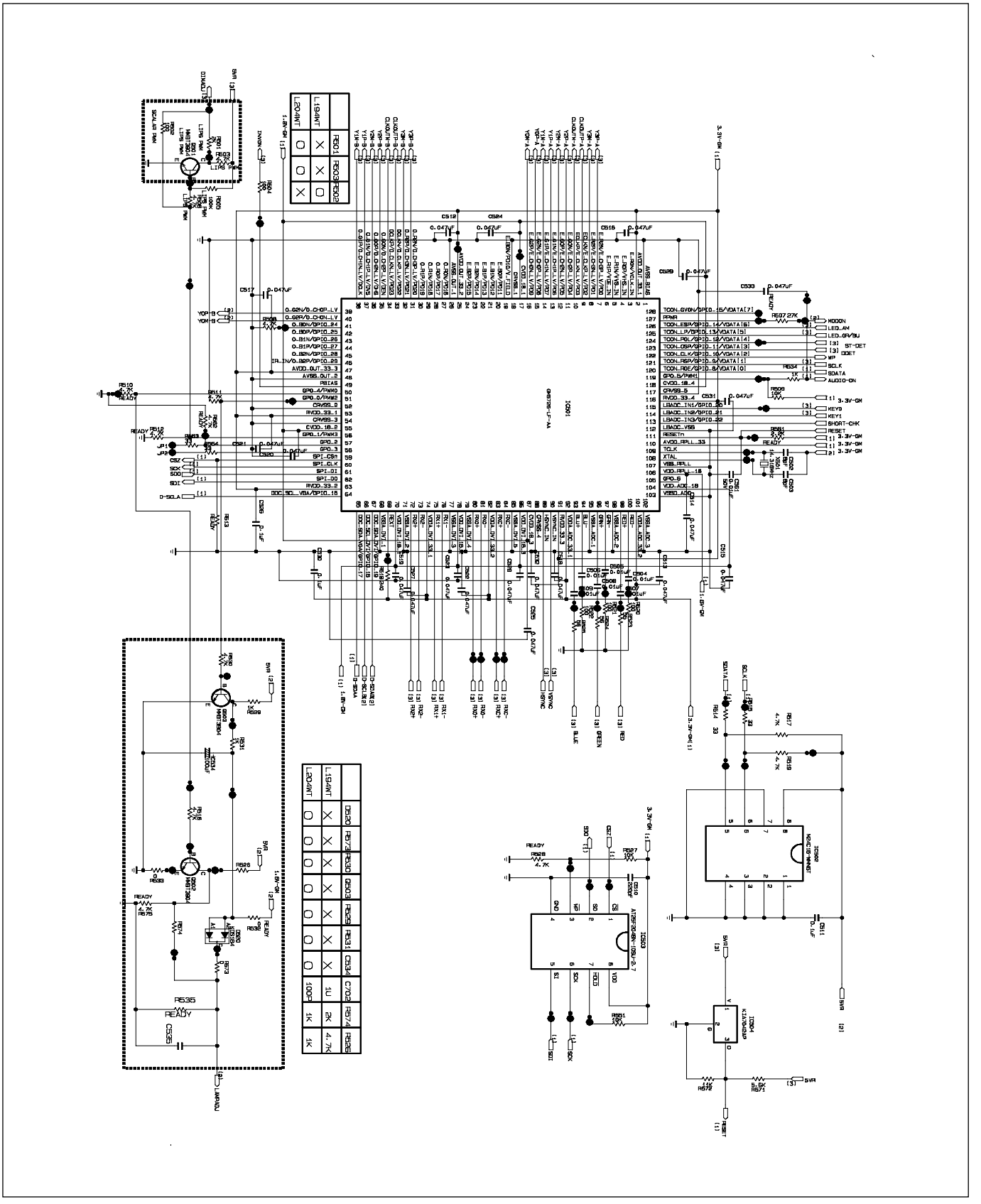
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R547	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W 1608
		R548	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
		R549	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
		R550	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
		R553	0RJ2400D677	MCR03EZPJ241 240OHM 5% 1/10W 1608
		R554	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
		R566	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R567	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R568	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R569	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R577	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R578	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R583	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R584	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
		R588	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608
		R589	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608
		R590	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
		R591	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
		R592	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R593	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R594	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R595	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R596	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R597	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
		R598	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
		R599	0RJ2702D677	MCR03EZPJ273 27KOHM 5% 1/10W 1608
		R601	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R602	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R603	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
		R604	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
		R605	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
		R606	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 1608
		R607	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R608	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 1608
		R609	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608
		R610	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608
		R611	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608
		R612	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608
		R613	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608
		R614	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608
		R615	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608
		R616	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608
		R617	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608
		R618	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608
		R619	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
		R620	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R621	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R622	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R623	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R624	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R625	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R626	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R627	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R628	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
		R629	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
		R630	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
		R631	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
		R632	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1608
		R633	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
		R635	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608
		R636	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608
		R637	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608

DATE: 2007. 05. 22.

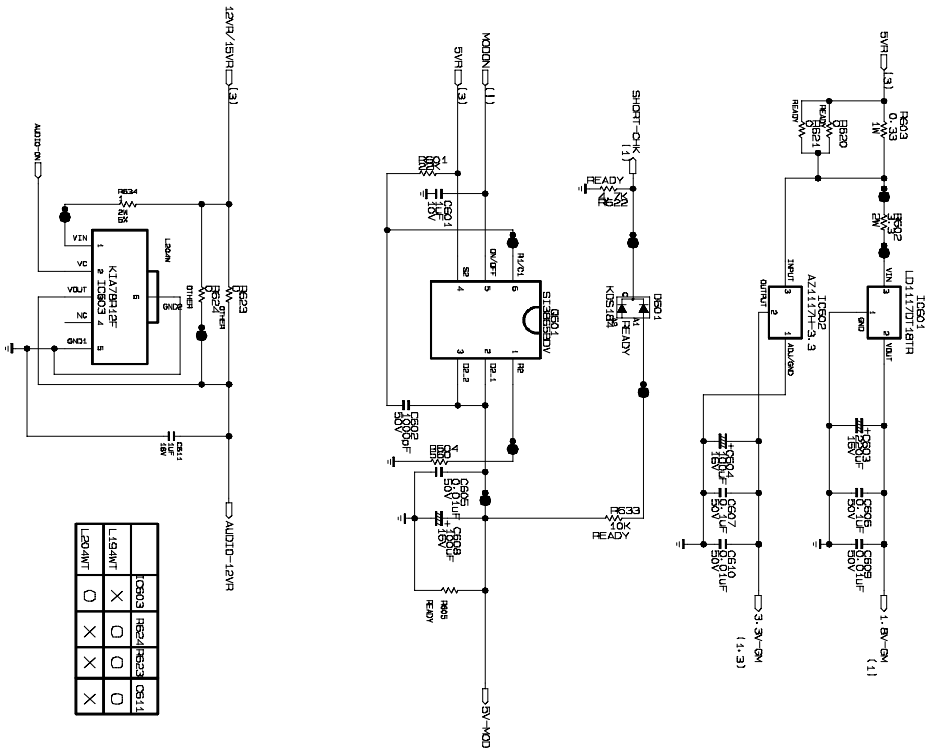
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R638	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
		R639	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R640	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R641	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R642	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
		R651	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
		R652	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
		R702	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R703	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R704	0RX0471K668	RS02AO4R70J - 5% 2W 15.0X5.5MM 15
		R705	0RX0471K668	RS02AO4R70J - 5% 2W 15.0X5.5MM 15
		R706	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608
		R708	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R709	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
		R710	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10W 1608
		R712	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
		R715	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608
		RA555	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA556	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA557	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA558	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA559	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA560	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA561	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA562	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA563	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA564	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
		RA565	0RJ0472C687	RCA86TRJ47R0 47OHM 5% 1/16W 4 SMD
	OTHERs			
		P601	6630TGA005B	QH11121-DN0-D DVI 24P 1.90MM ANGL
		P602	6630TGA004F	KCN-DS-3-0062 D-SUB 15P 2.29MM AN
		P604	6602T12004E	12505WS-06A00 6P 1.25MM 1R STRAIG
		P605	6602T20008K	SMW200-11P 11P 2.00MM 1R STRAIGHT
		P606	6630V90219A	SMW200-28C 28P 2.0MM 2R STRAIGHT
		Q701	0TFVI80067A	SI3865BDV(E3) N-CHANNEL MOSFET 8V
		X501	6212AA2004F	HC-49/U 14.31818MHZ 30PPM(TXC) 14
	CONTROL BOARD			
		D1	0DLGP0128AA	GPTD1210YBC BLUE/YELLOW Blue:3.6V
		J1	6602T12005E	12505WR-06A00 6P 1.25MM 1R ANGLE
		J2	6602T12005C	12505WR-04A00 4P 1.25MM 1R ANGLE
		J3	6602T12005C	12505WR-04A00 4P 1.25MM 1R ANGLE
		R1	0RJ7501D677	MCR03EZPJ752 7.5KOHM 5% 1/10W 160
		R2	0RJ7501D677	MCR03EZPJ752 7.5KOHM 5% 1/10W 160
		R3	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W 160
		R4	0RJ1801D677	MCR03EZPJ182 1.8KOHM 5% 1/10W 160
		R5	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W 160
		R6	0RJ1801D677	MCR03EZPJ182 1.8KOHM 5% 1/10W 160
		SW1	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A HORIZ
		SW2	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A HORIZ
		SW3	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A HORIZ
		SW4	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A HORIZ
		SW5	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A HORIZ
		SW6	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A HORIZ
		ZD1	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
		ZD2	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
		ZD3	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM
		ZD4	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM

SCHEMATIC DIAGRAM

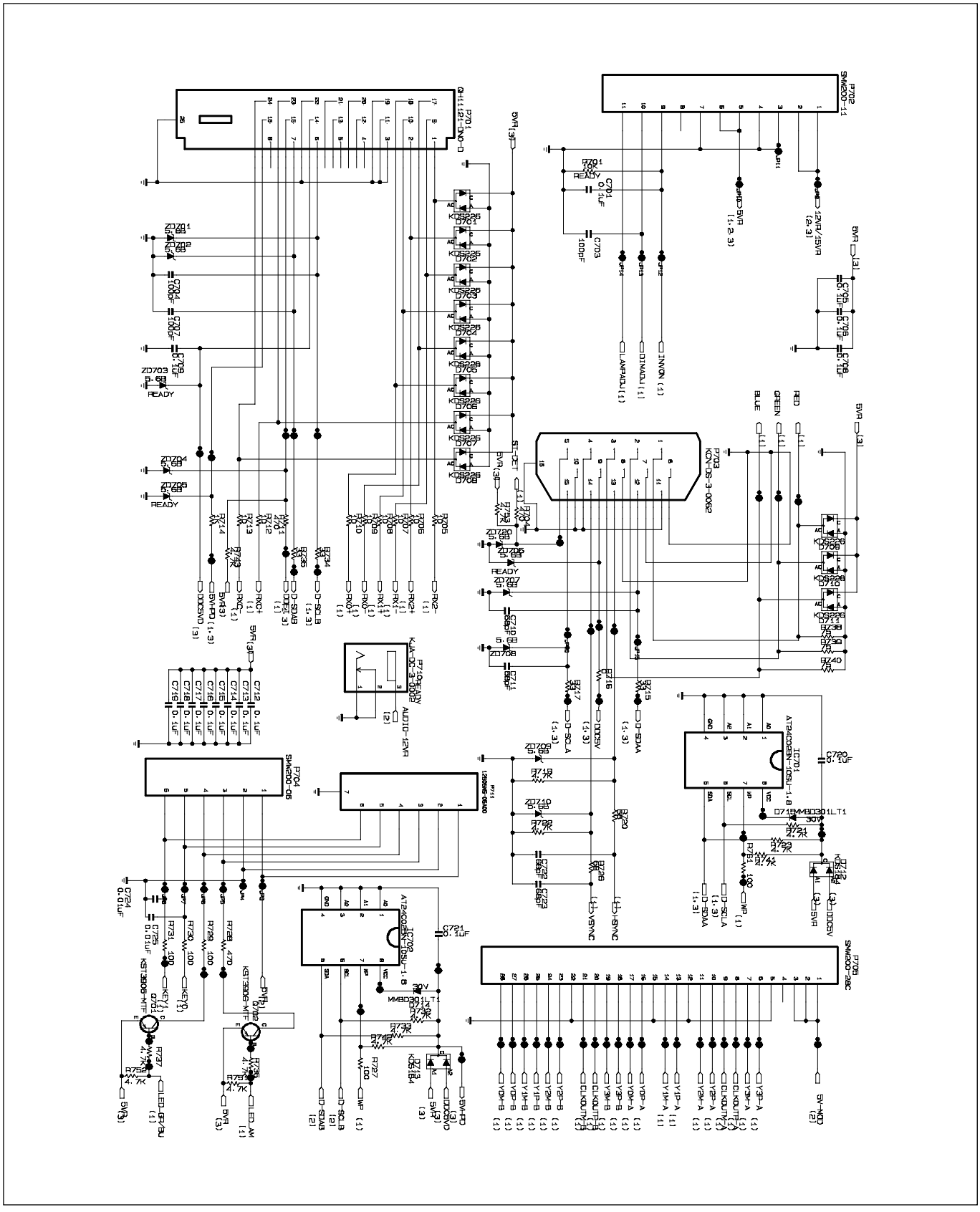
1. SCALER



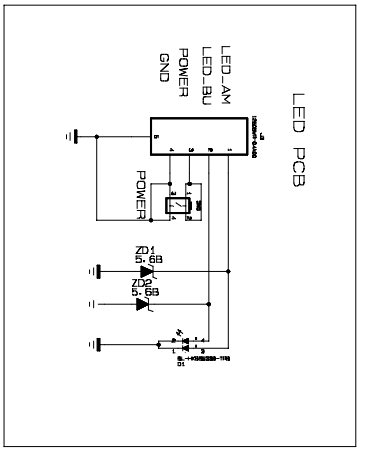
2. POWER

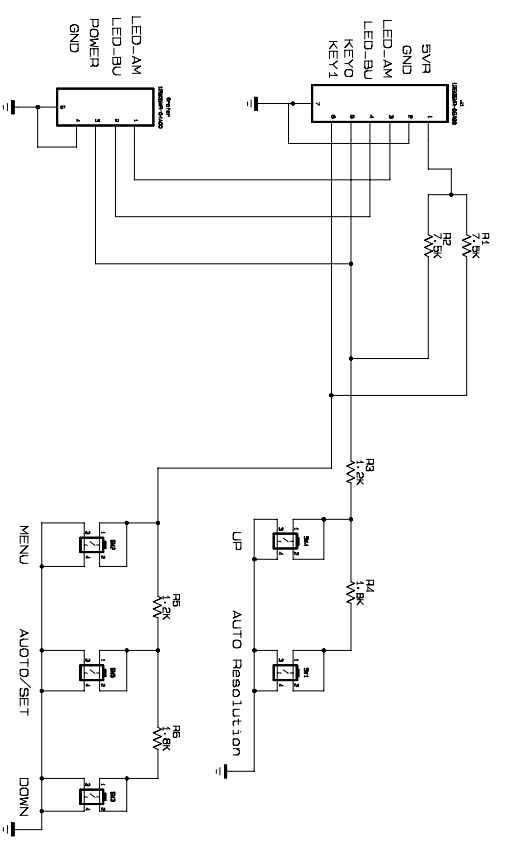


3. WAFER



4. CONTROL


LED PCB
LED_AM
LED_BU
POWER
GND
POWER
ZD1
5.6B
ZD2
5.6B


LED_AM
LED_BU
POWER
GND
5VR
GND
LED_AM
LED_BU
KEY0
KEY1
R1
1.5K
R2
7.5K
R3
1.2K
R4
1.8K
R5
1.2K
R6
1.5K
MENU
AUTO/SET
DOWN
UP
AUTO Resolution

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